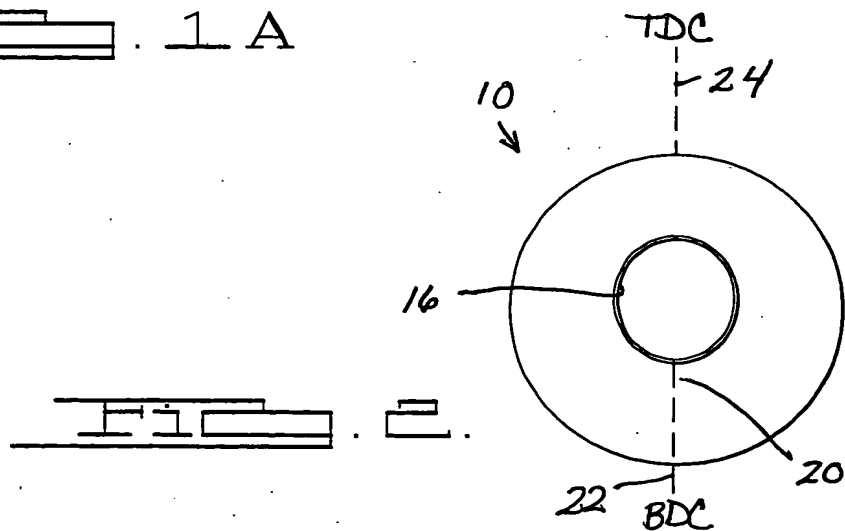
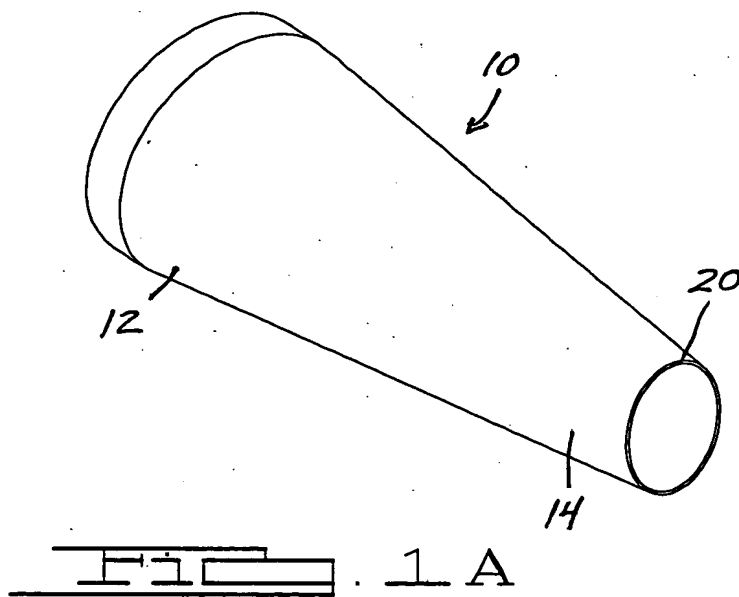
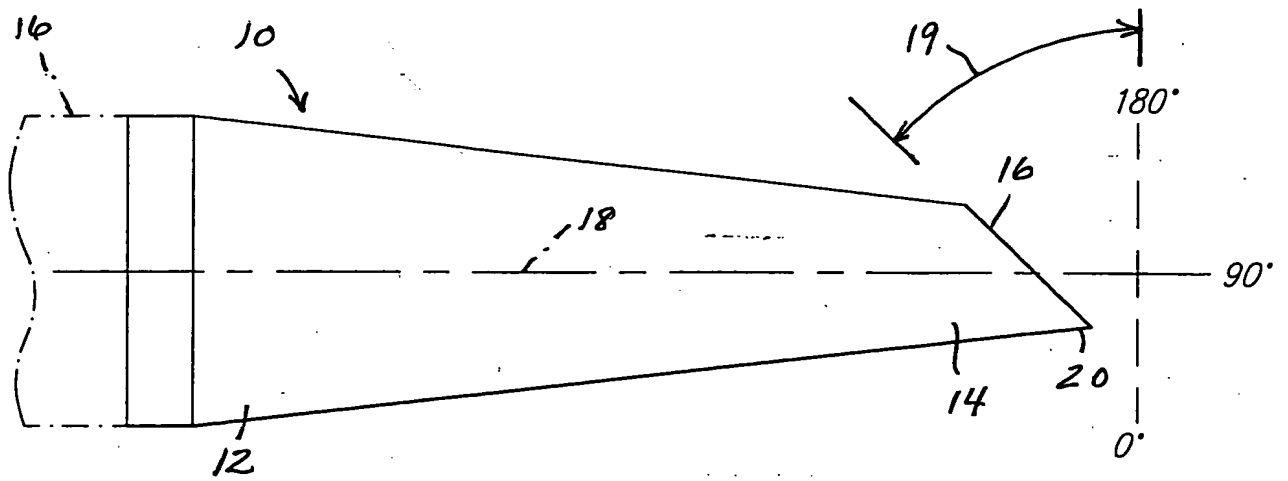


Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

Inventor(s): Viswanathan; Atty Docket: 7784-000712
Mark D. Elchuk, Harness Dickey & Pierce, (248) 641-1600

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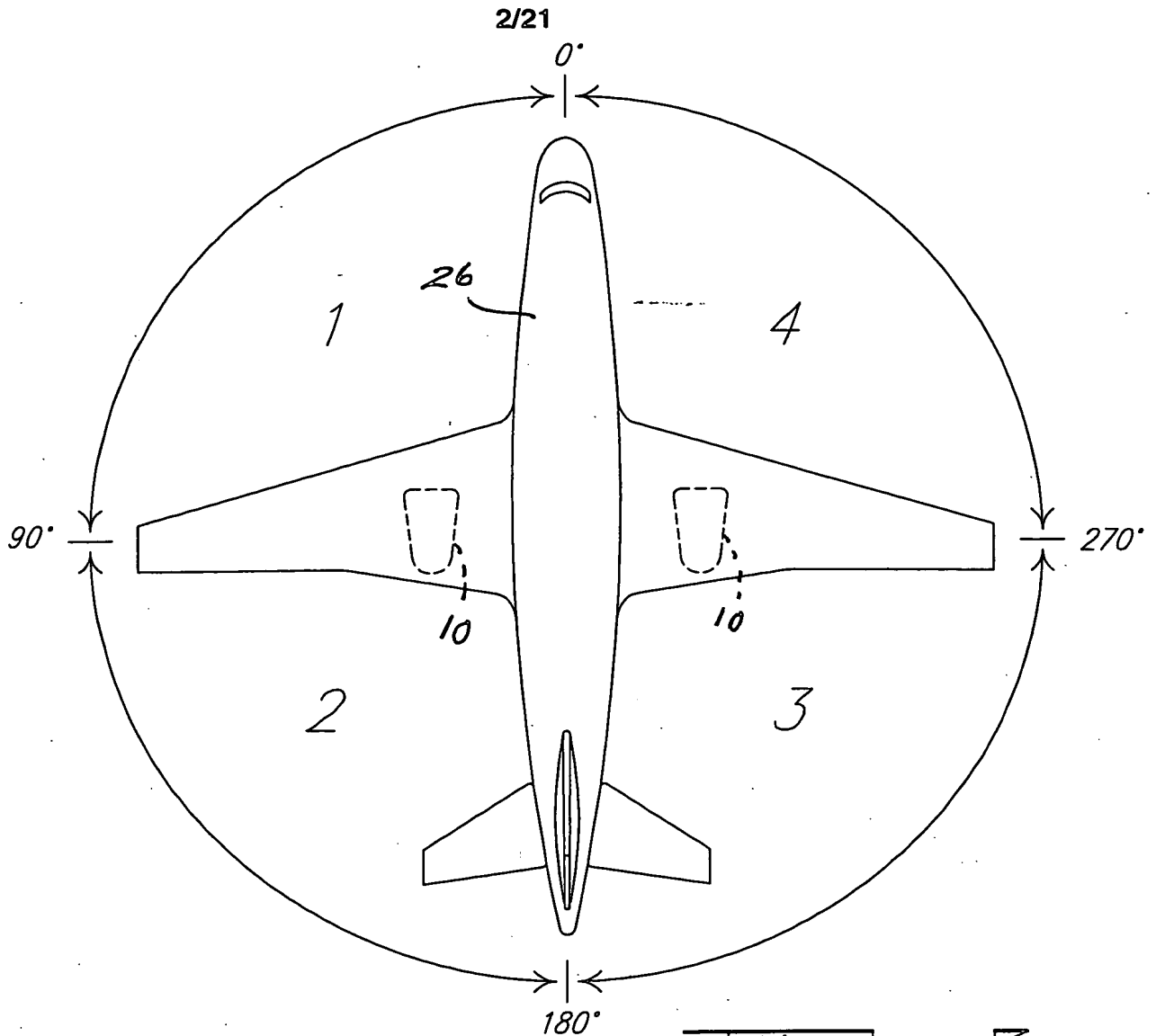


FIG. 3.

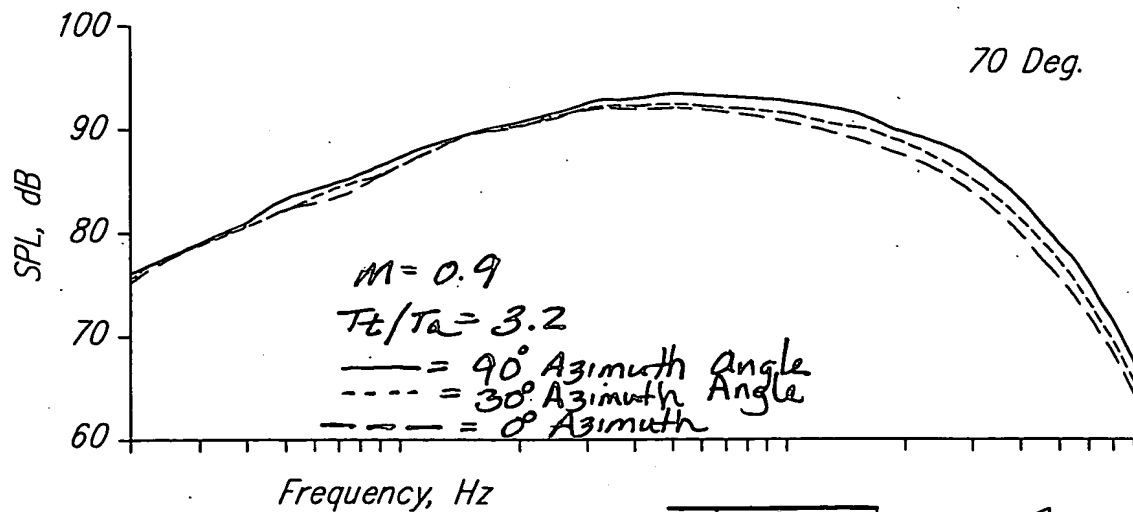


FIG. 4.

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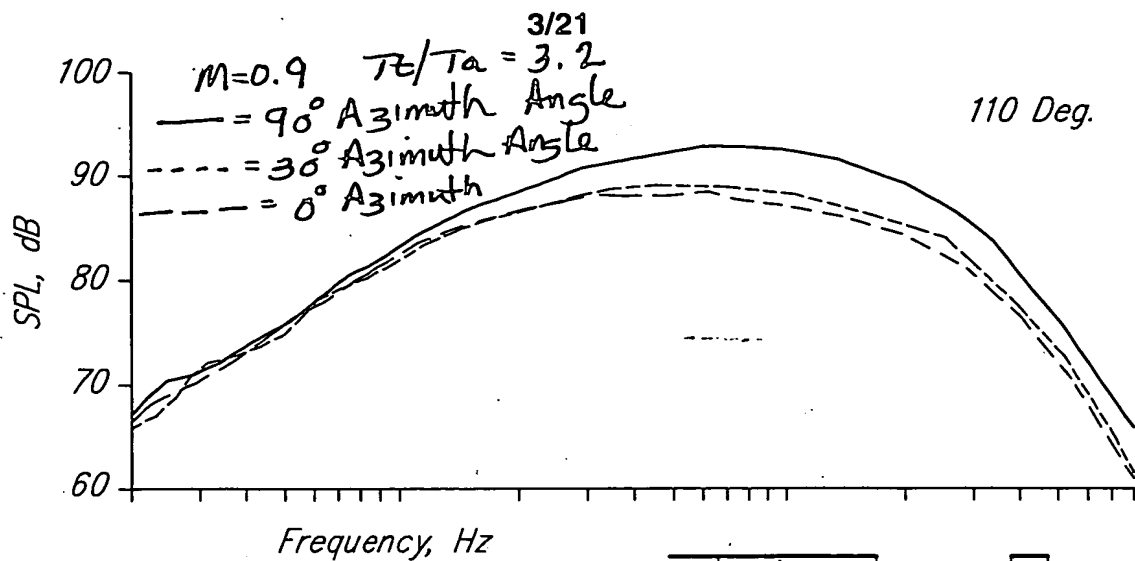


FIG. 5.

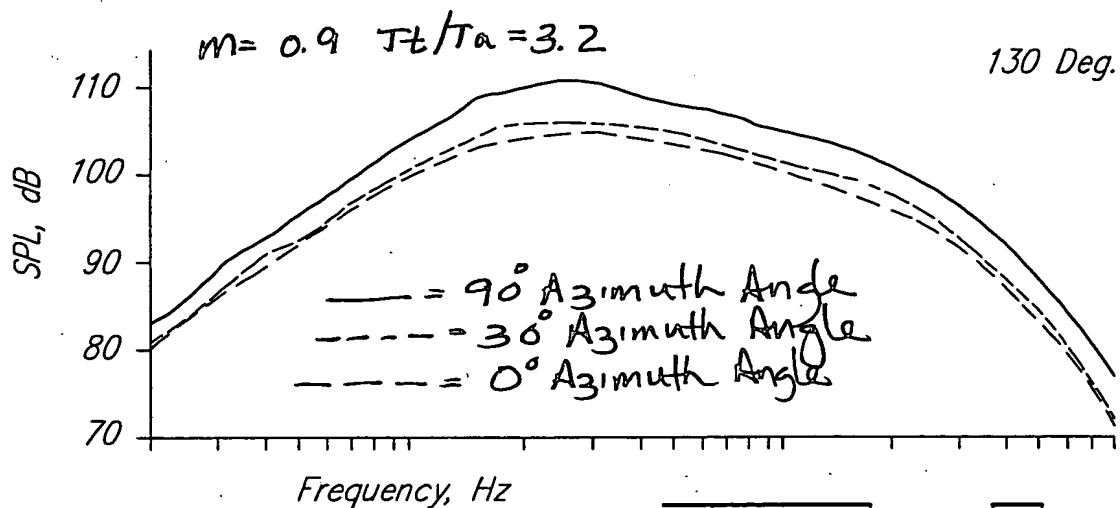


FIG. 6.

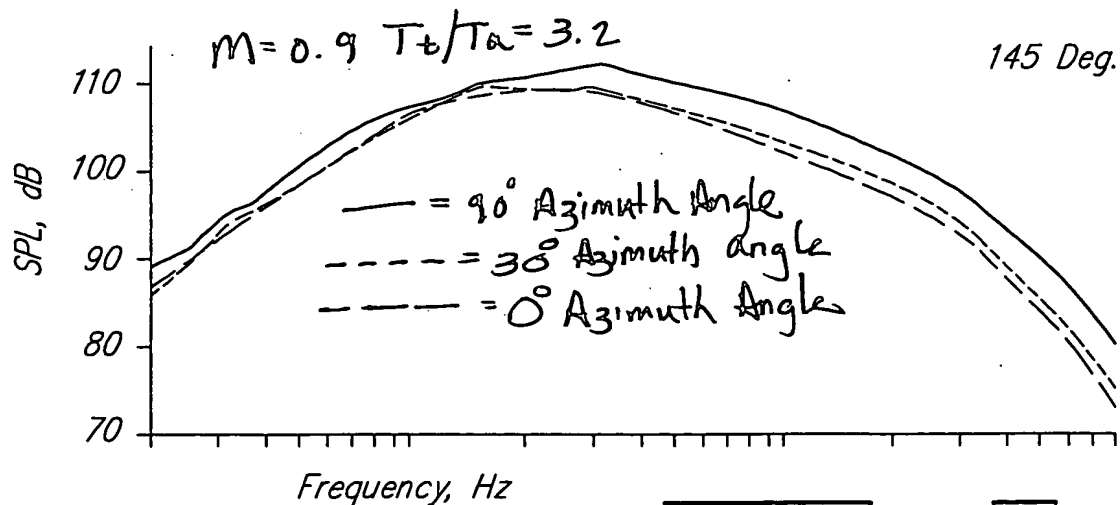
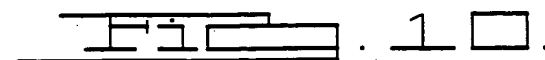
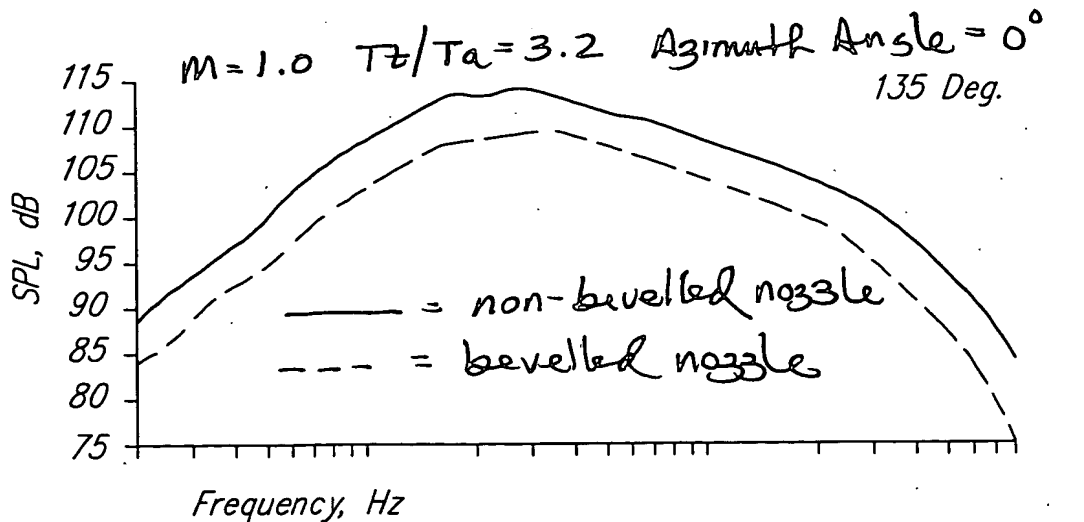
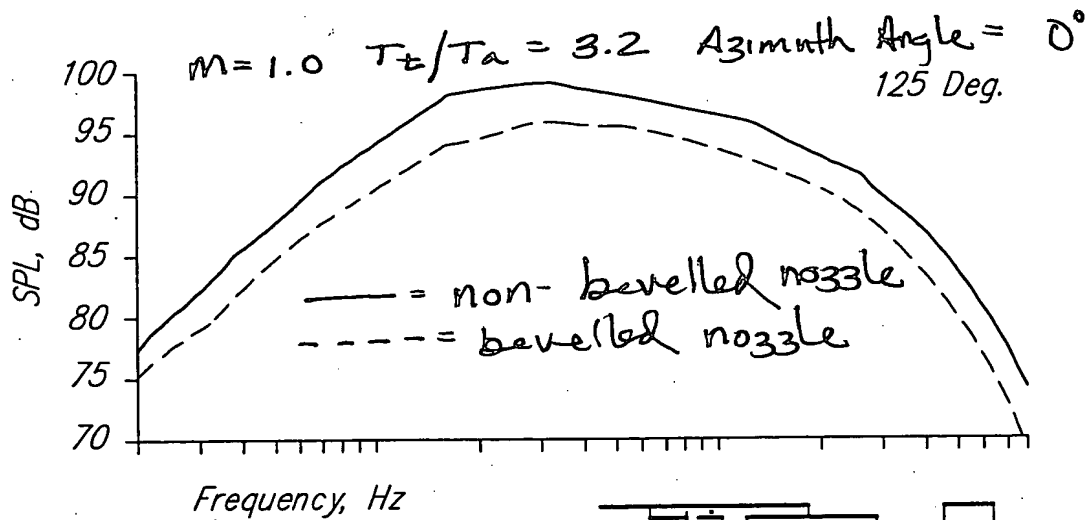
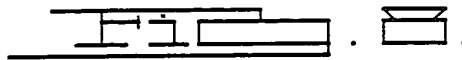
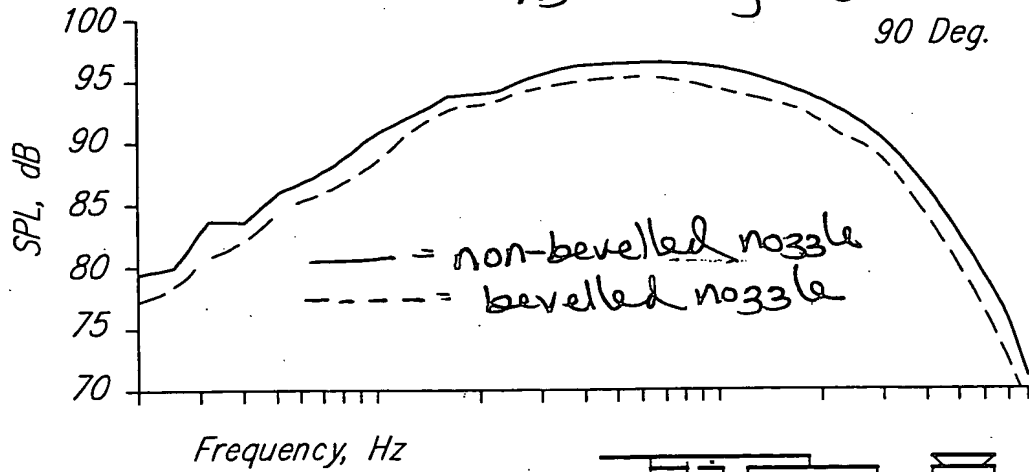


FIG. 7.

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
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$M=1.0$ $T_t/T_a=3.2$
Azimuth Angle = 0°



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$M=1.0$ $T_t/T_a = 5/23.2$ Azimuth Angle = 0°

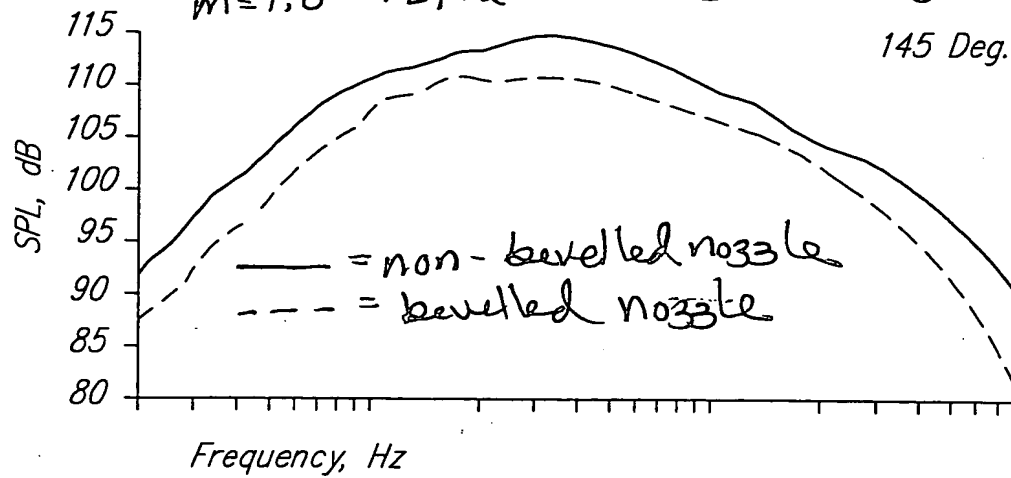
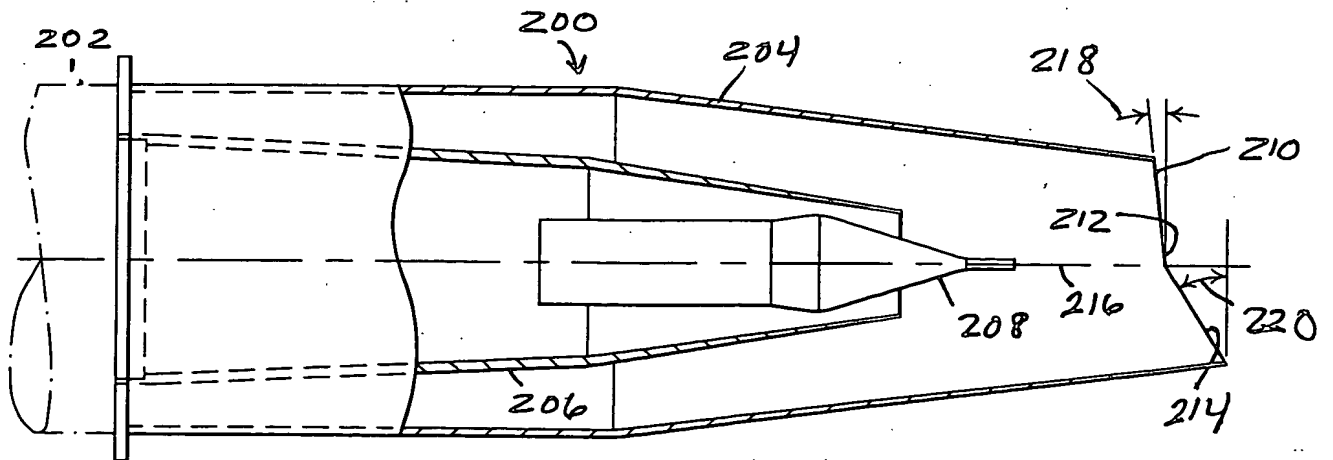
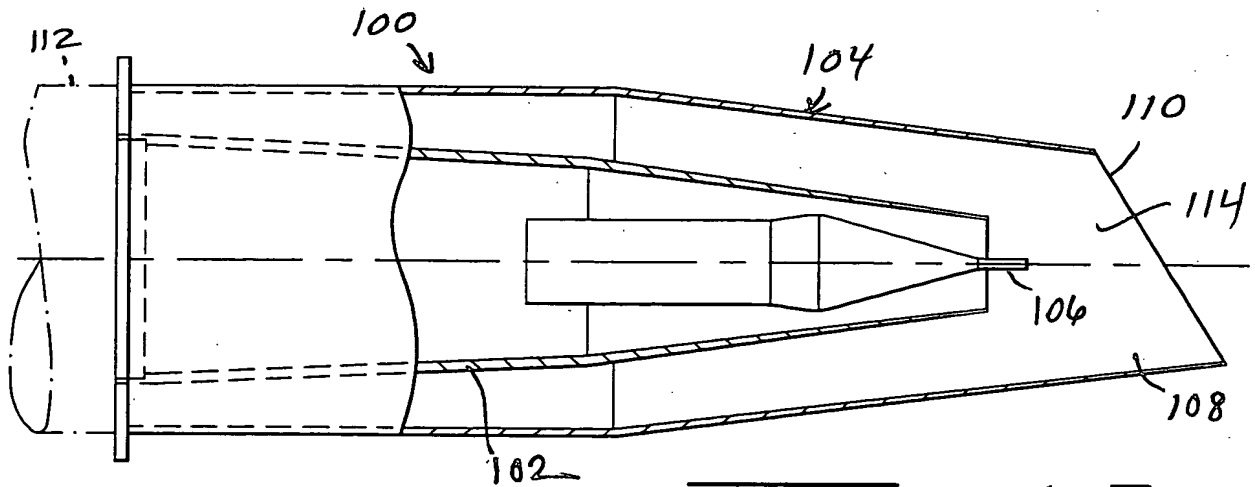


FIG. 11.



Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
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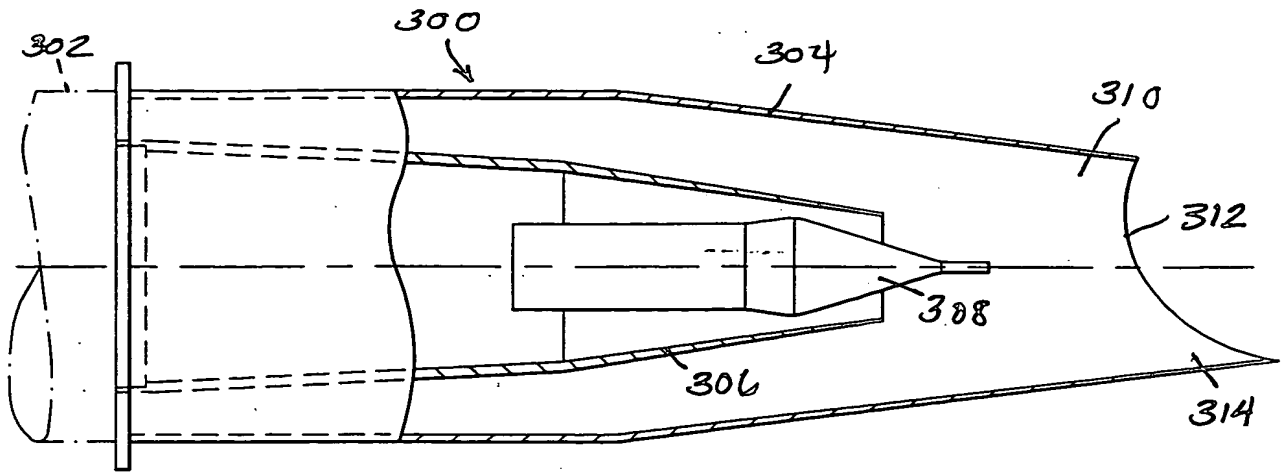


FIG. 14.

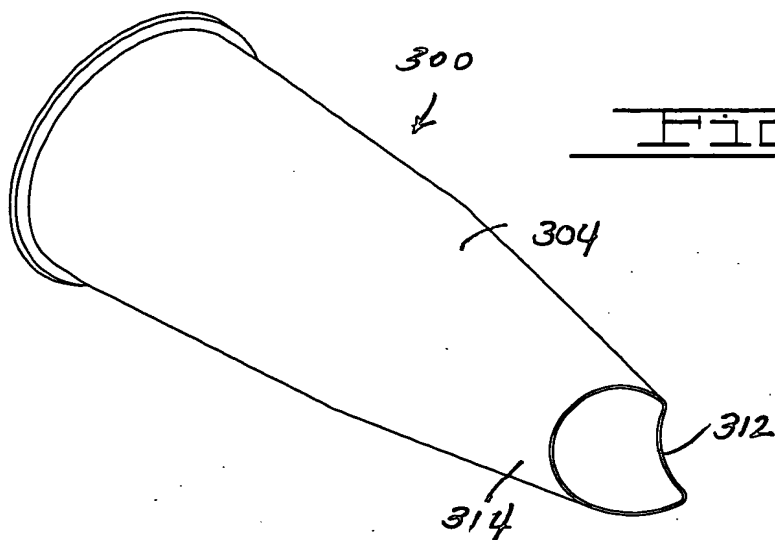


FIG. 14A

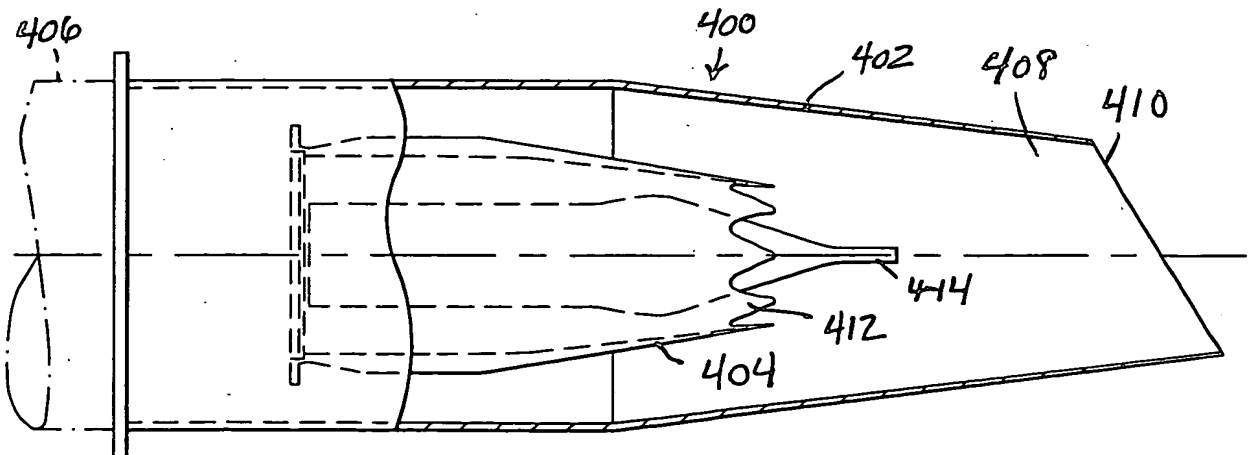
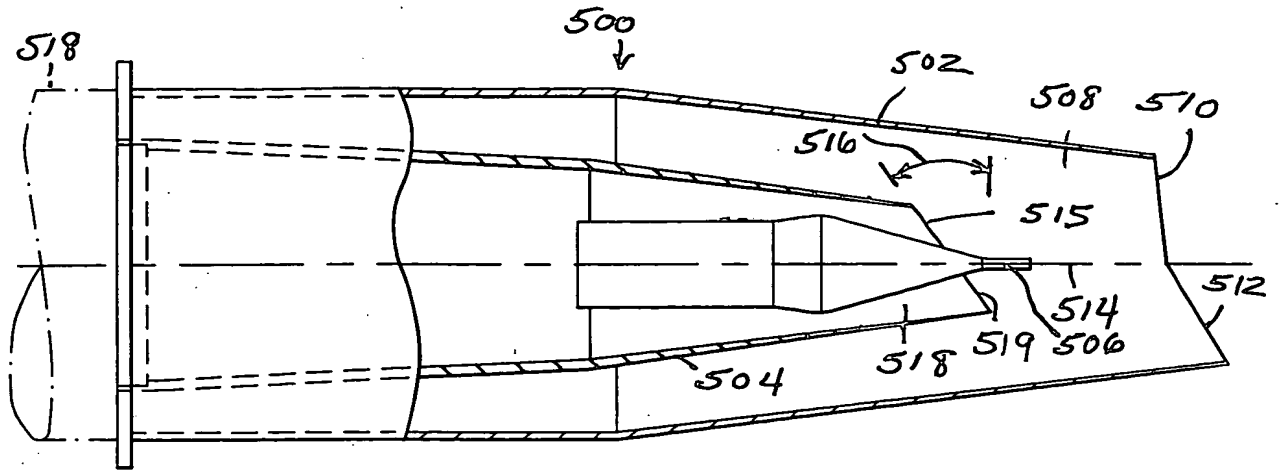
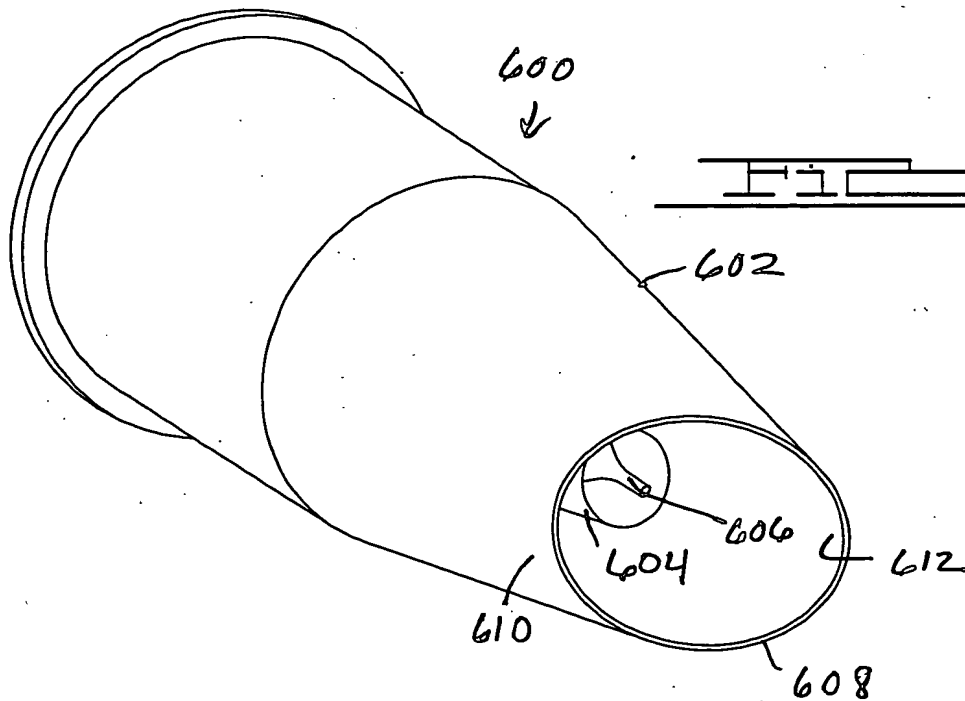


FIG. 15.

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11. 1.



File. 17.

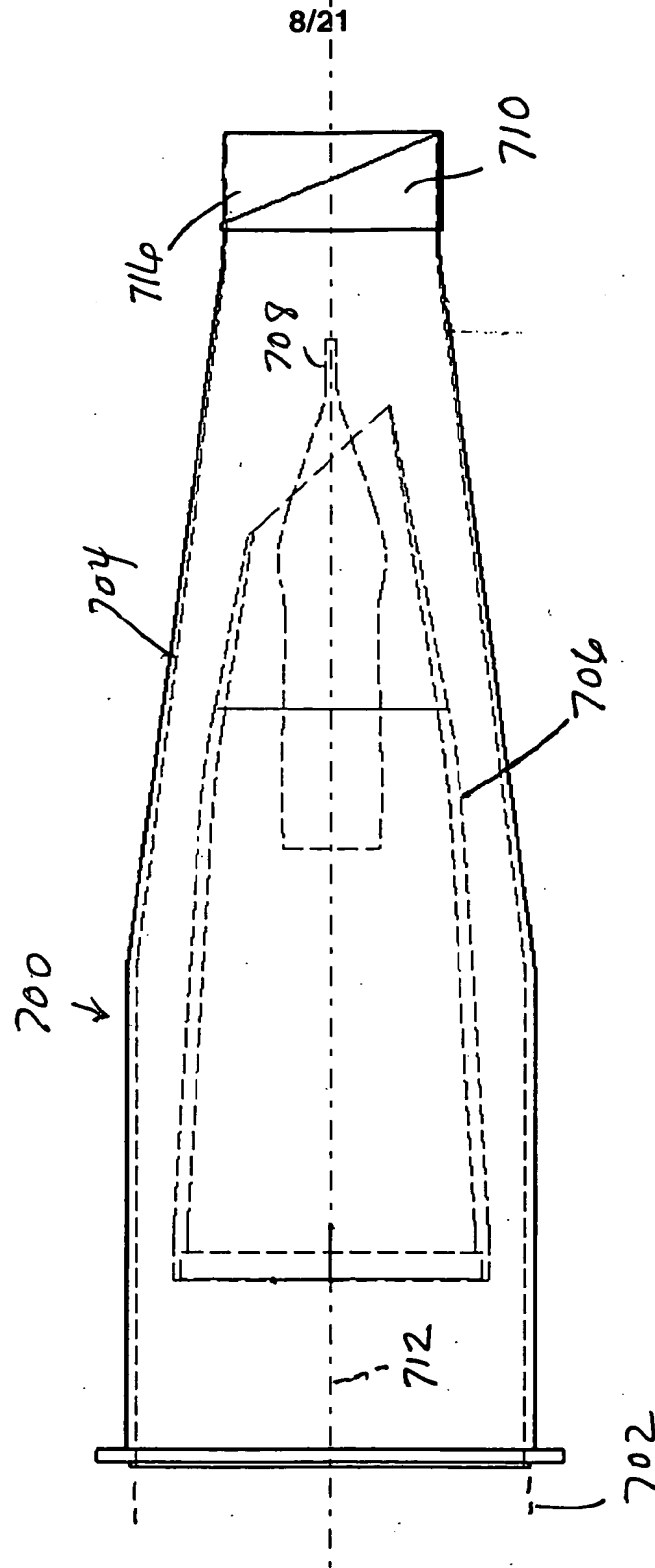


Figure 18.

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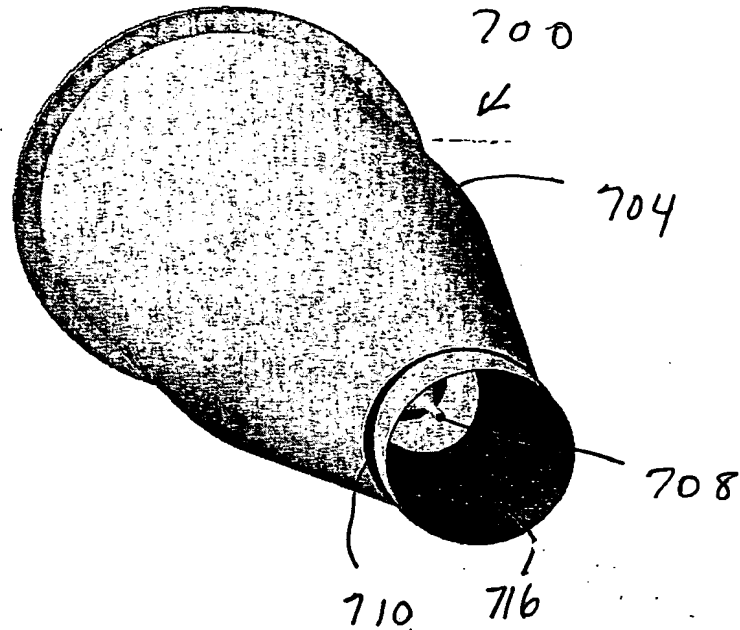


FIG. 18A

Figure 18a.

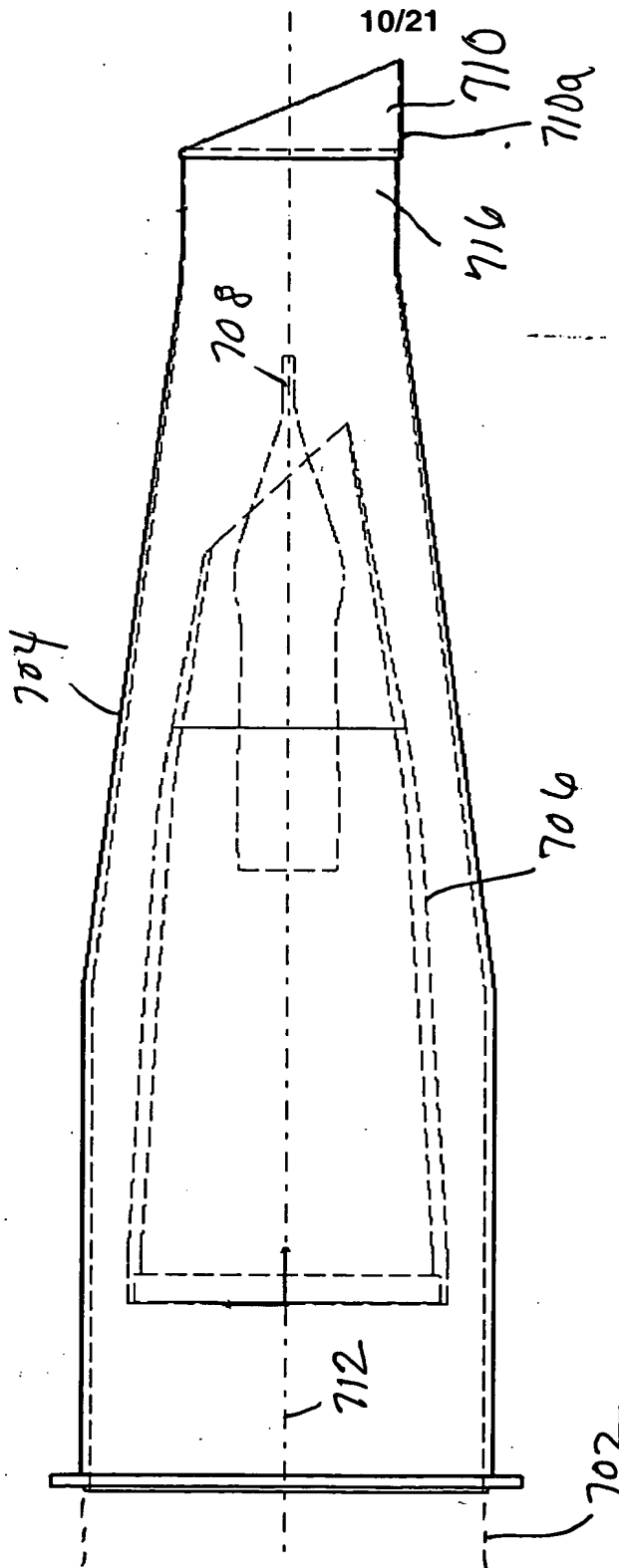


Figure 19.

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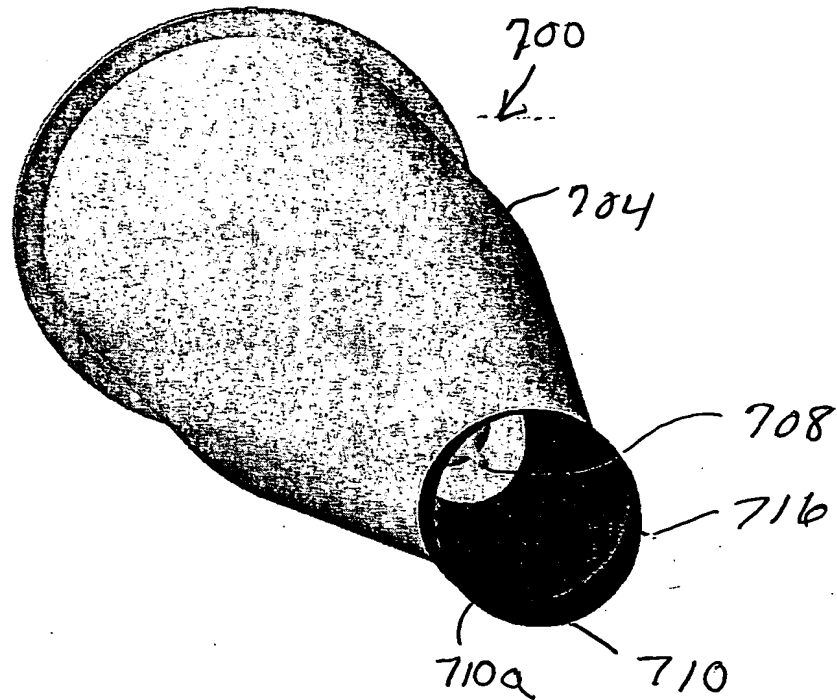


FIGURE 19A

Figure 19a.

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

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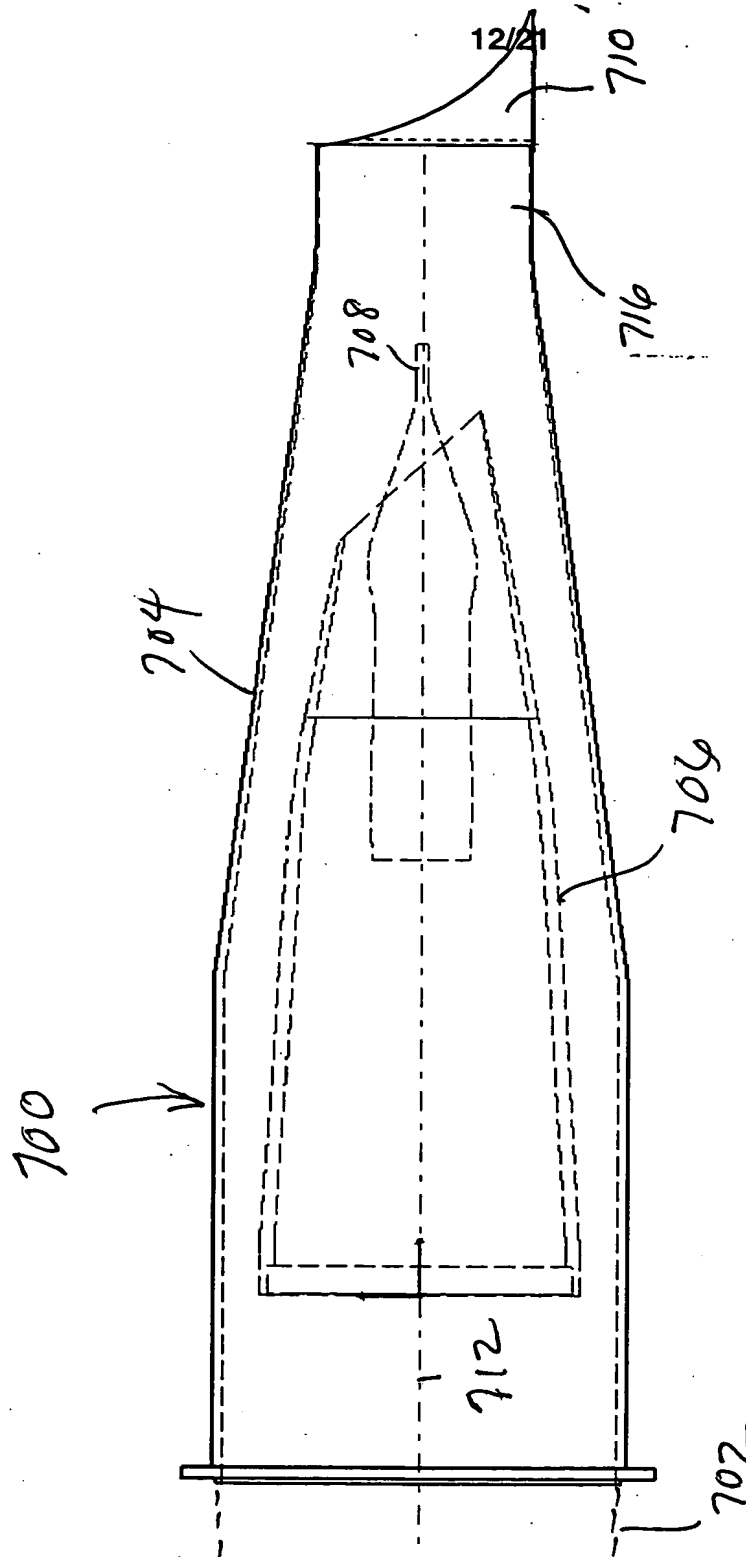


Figure 19b.

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

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Mark D. Elchuk, Harness Dickey & Pierce, (248) 641-1600

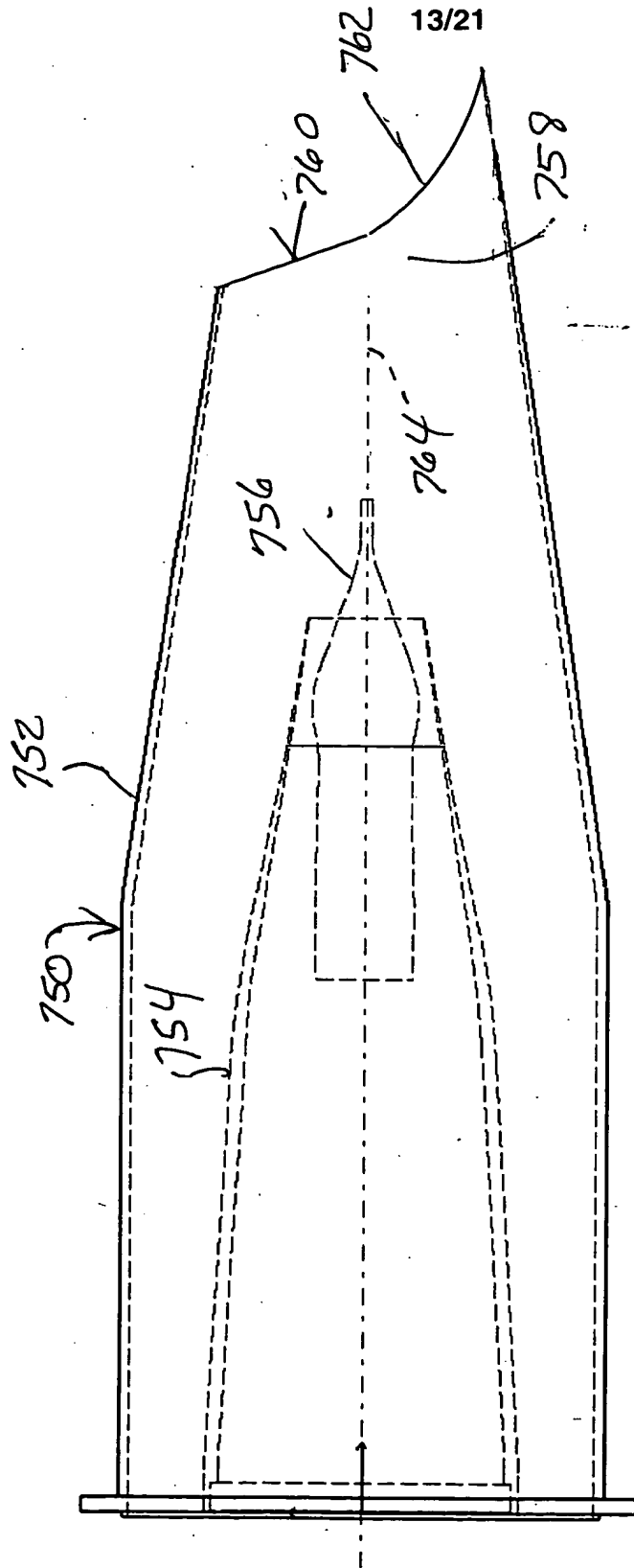


FIG. 19c

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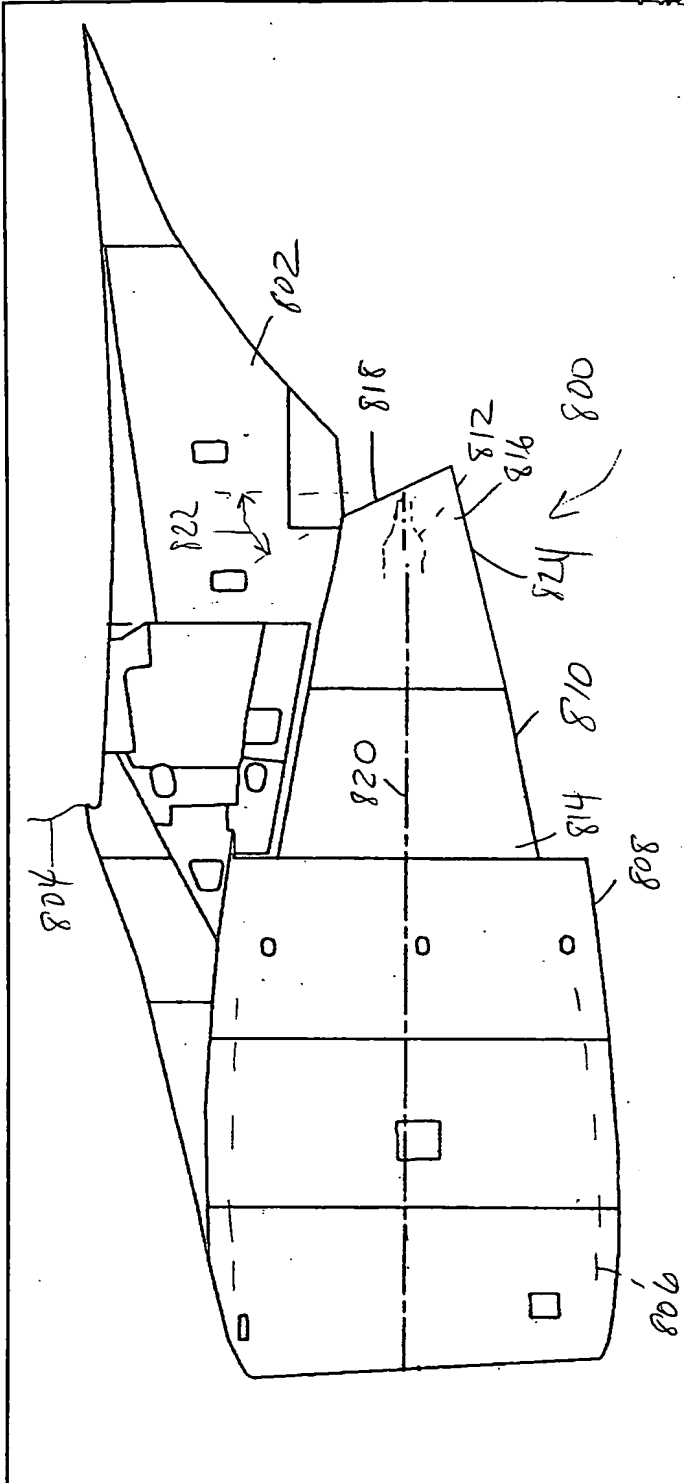


FIGURE 20

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

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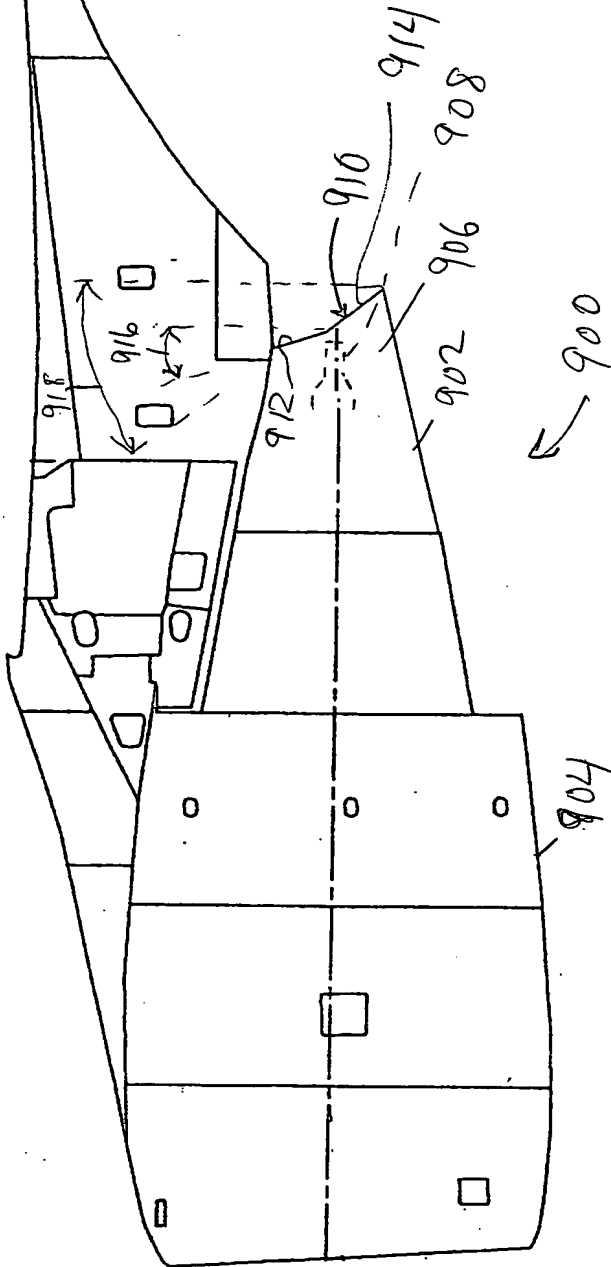


FIG 21

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

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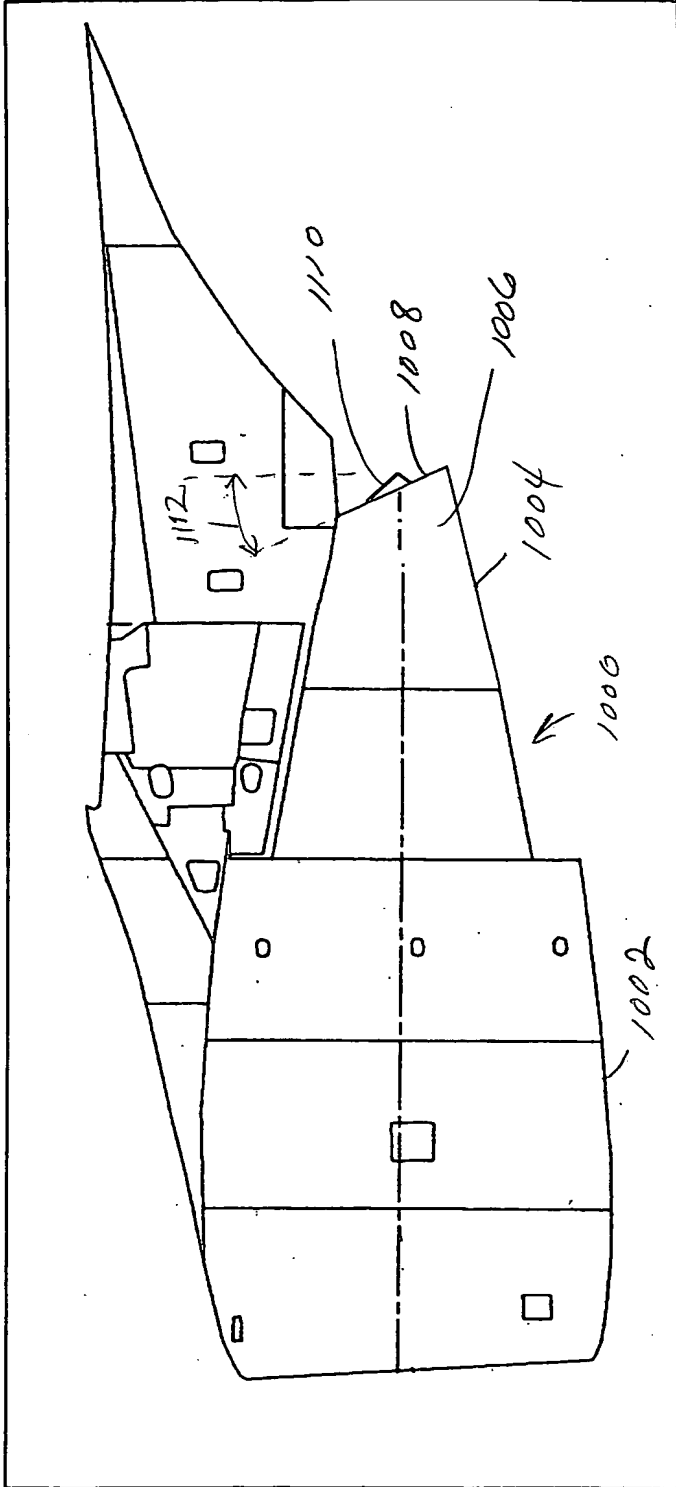


Fig 22

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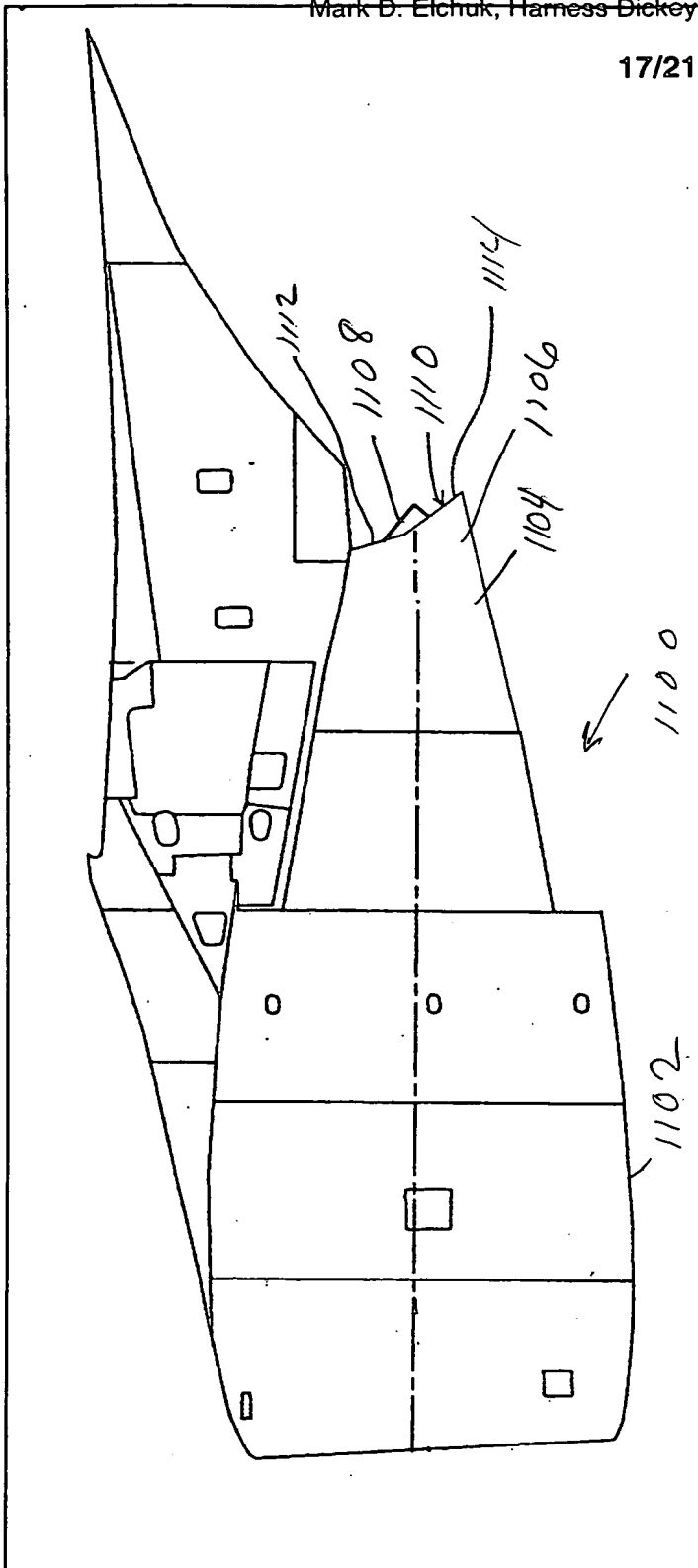


Fig 23

Title: Apparatus and Method for Reduction of Jet Noise From Turbofan Engines Having
Separate Bypass and Core Flows

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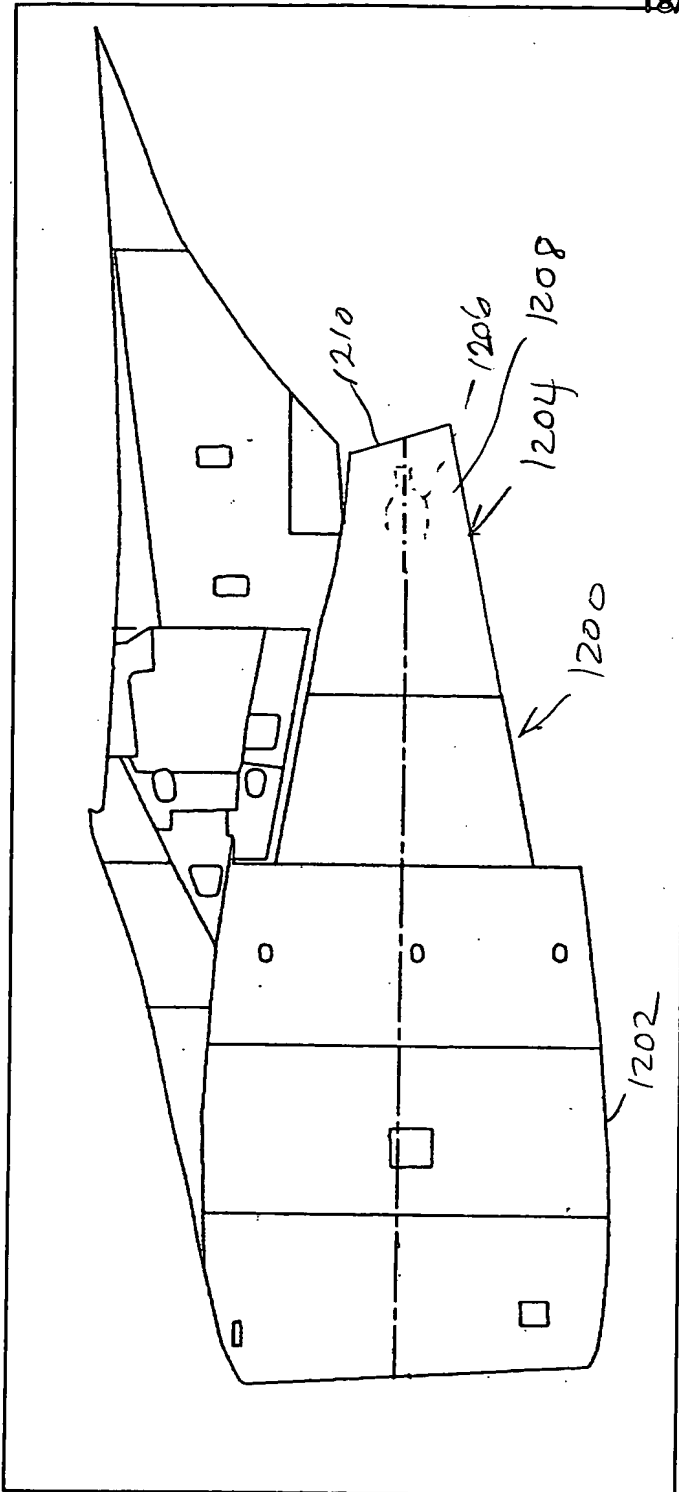


Fig 24

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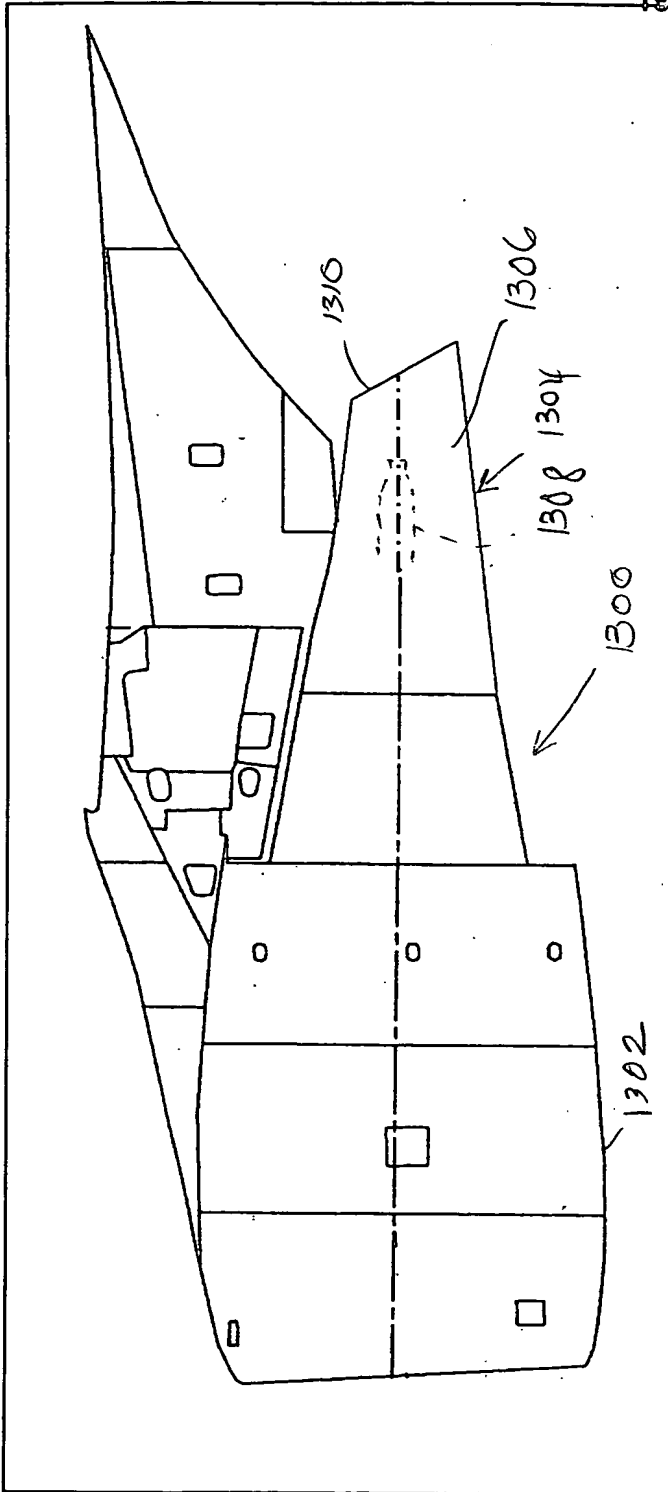
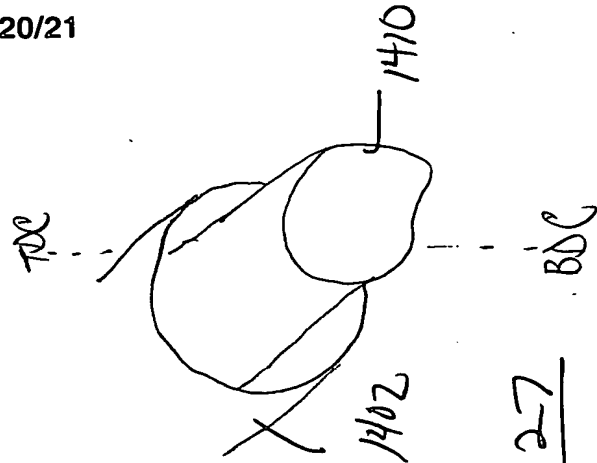
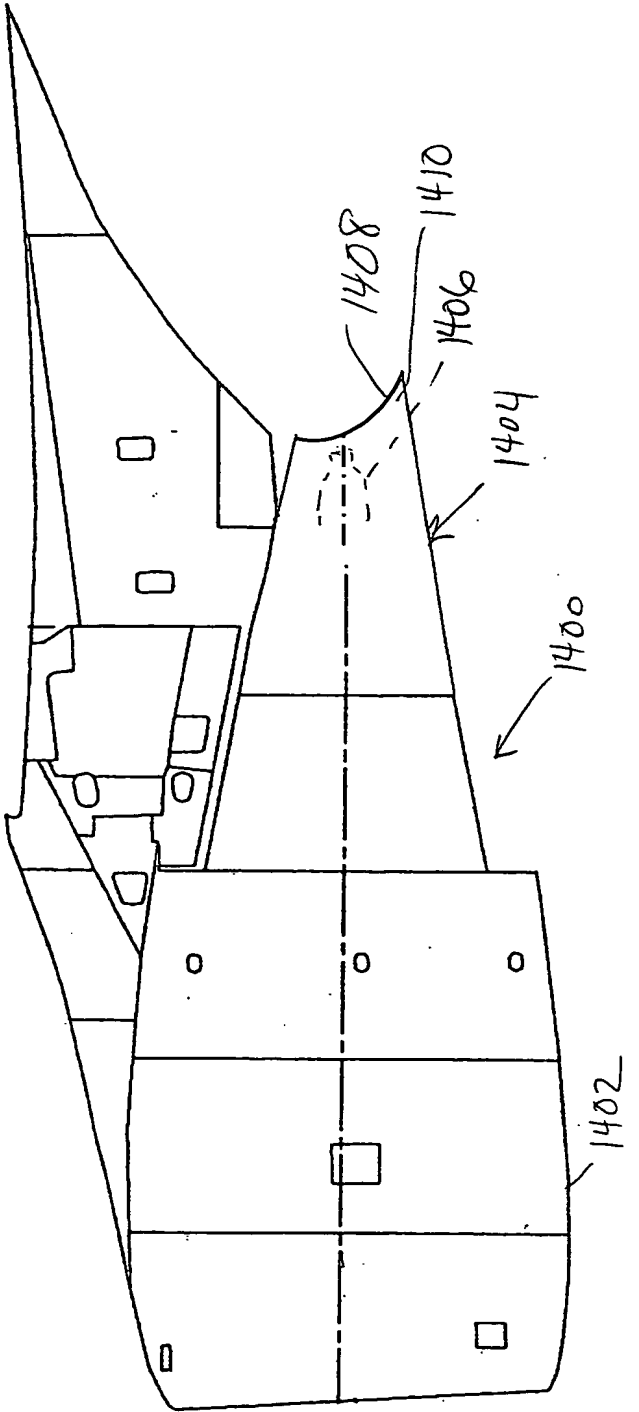


FIG. 25

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Fr 27

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